

## SAFETY DATA SHEET

ARKEMA

### ENCOR® FLEX 1361

#### 1. PRODUCT AND COMPANY IDENTIFICATION

##### Company

Arkema Inc.  
900 First Avenue  
King of Prussia, Pennsylvania 19406

##### Arkema Coating Resins

Customer Service Telephone Number: (877) 331-6696  
(Monday through Friday, 8:00 AM to 5:00 PM EST)

##### Emergency Information

##### Transportation:

CHEMTREC: (800) 424-9300  
(24 hrs., 7 days a week)

##### Medical:

Rocky Mountain Poison Center: (866) 767-5089  
(24 hrs., 7 days a week)

##### Product Information

##### Product name:

ENCOR® FLEX 1361

##### Synonyms:

Not available

##### Molecular formula:

Complex mixture

##### Chemical family:

acrylic copolymer

##### Product use:

Binder, For Industrial Use Only.

#### SECTION 2: HAZARDS IDENTIFICATION

##### Emergency Overview

##### Color:

white

##### Physical state:

liquid

##### Form:

aqueous dispersion

##### Odor:

slightly acrylic

##### \*Classification of the substance or mixture:

GHS classification in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200)  
Carcinogenicity, Category 1B, H350

\*For the full text of the H-Statements mentioned in this Section, see Section 16.



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**GHS-Labeling**

Hazard pictograms:



Signal word:

**Danger****Hazard statements:**

H350 : May cause cancer.

**Precautionary statements:****Prevention:**

P201 : Obtain special instructions before use.

P202 : Do not handle until all safety precautions have been read and understood.

P281 : Use personal protective equipment as required.

**Response:**

P308 + P313 : IF exposed or concerned: Get medical advice/ attention.

**Storage:**

P405 : Store locked up.

**Disposal:**

P501 : Dispose of contents or container to an approved waste disposal plant.

**Supplemental information:****Potential Health Effects:**

Contains high molecular weight polymer(s).

**Other:**

Dried product may stick to the skin causing irritation upon removal.

**SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**

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| Chemical name                               | CAS-No.      | Wt/Wt         | GHS Classification**               |
|---------------------------------------------|--------------|---------------|------------------------------------|
| Acrylic copolymer                           | Proprietary* | > 30 - < 60 % | Not classified                     |
| Water                                       | 7732-18-5    | > 30 - < 60 % | Not classified                     |
| Ammonium hydroxide ((NH <sub>4</sub> )(OH)) | 1336-21-6    | < 0.5 %       | H302, H314, H318, H335, H400, H412 |
| Methanone, diphenyl-                        | 119-61-9     | < 0.3 %       | H350, H373, H412                   |

\*The specific chemical identity is withheld because it is trade secret information of Arkema Inc.

\*\*For the full text of the H-Statements mentioned in this Section, see Section 16.

#### SECTION 4: FIRST AID MEASURES

##### 4.1. Description of necessary first-aid measures:

###### Inhalation:

If inhaled, remove victim to fresh air.

###### Skin:

In case of contact, immediately flush skin with plenty of water. Remove contaminated clothing and shoes. Wash clothing before reuse. Thoroughly clean shoes before reuse.

###### Eyes:

Immediately flush eye(s) with plenty of water.

###### Ingestion:

If swallowed, DO NOT induce vomiting. Get medical attention. Never give anything by mouth to an unconscious person.

##### 4.2. Most important symptoms and effects, both acute and delayed:

For most important symptoms and effects (acute and delayed), see Section 2 (Hazard Statements and Supplemental Information if applicable) and Section 11 (Toxicology Information) of this SDS.

##### 4.3. Indication of any immediate medical attention and special treatment needed:



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Unless otherwise noted in Notes to Physician, no specific treatment noted; treat symptomatically.

**SECTION 5: FIREFIGHTING MEASURES****Extinguishing media (suitable):**

Water spray, Carbon dioxide (CO<sub>2</sub>), Foam, Dry chemical

**Protective equipment:**

Fire fighters and others who may be exposed to products of combustion should wear full fire fighting turn out gear (full Bunker Gear) and self-contained breathing apparatus (pressure demand / NIOSH approved or equivalent).

**Further firefighting advice:**

Fire fighting equipment should be thoroughly decontaminated after use.

**Fire and explosion hazards:**

When burned, the following hazardous products of combustion can occur:

Carbon oxides

Sulphur oxides

Hazardous organic compounds

**SECTION 6: ACCIDENTAL RELEASE MEASURES****Personal precautions, Emergency procedures, Methods and materials for containment/clean-up:**

Prevent further leakage or spillage if you can do so without risk. Ventilate the area. Avoid generation of vapors. Contain and collect spillage with non-combustible absorbent material such as clean sand, earth, diatomaceous earth or non-acidic clay and place into suitable properly labeled containers for prompt disposal. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Consult a regulatory specialist to determine appropriate state or local reporting requirements, for assistance in waste characterization and/or hazardous waste disposal and other requirements listed in pertinent environmental permits.

**Protective equipment:**

Appropriate personal protective equipment is set forth in Section 8.

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#### SECTION 7: HANDLING AND STORAGE

##### Handling

###### **General information on handling:**

Do not taste or swallow.  
Do not breathe vapor or mist.  
Do not get in eyes, on skin, or on clothing.  
Wash thoroughly after handling.  
Keep container tightly closed.  
Use only with adequate ventilation.  
Emptied container retains vapor and product residue.  
Observe all labeled safeguards until container is cleaned, reconditioned or destroyed.

##### Storage

###### **General information on storage conditions:**

Keep in a dry, cool place. Store in closed containers, in a secure area to prevent container damage and subsequent spillage.

###### **Storage stability – Temperature:**

34.00 - 85.01 °F (1.11 - 29.45 °C)

###### **Storage stability – Remarks:**

Stable under normal conditions. May coagulate if frozen at 0°C (32°F). Material may develop bacteria odor on long term storage.

###### **Storage incompatibility – General:**

May cause coagulation:

Acids

Multivalent metal salts

#### SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

##### Airborne Exposure Guidelines:

###### **Methanone, diphenyl- (119-61-9)**

US. OARS. WEELs Workplace Environmental Exposure Level Guide, as amended

|                       |           |
|-----------------------|-----------|
| Time weighted average | 0.5 mg/m3 |
|-----------------------|-----------|

|          |        |
|----------|--------|
| Remarks: | Listed |
|----------|--------|

Only those components with exposure limits are printed in this section. Limits with skin contact designation above have skin contact effect. Air sampling alone is insufficient to accurately quantitate exposure. Measures to prevent significant cutaneous absorption may be required. Limits with a sensitizer designation above mean that exposure to this material may cause allergic reactions.

##### Engineering controls:



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Investigate engineering techniques to reduce exposures below airborne exposure limits or to otherwise reduce exposures. Provide ventilation if necessary to minimize exposures or to control exposure levels to below airborne exposure limits (if applicable see above). If practical, use local mechanical exhaust ventilation at sources of air contamination such as open process equipment.

**Respiratory protection:**

Do not breathe vapor or mist. Where airborne exposure is likely or airborne exposure limits are exceeded (if applicable, see above), use NIOSH approved respiratory protection equipment appropriate to the material and/or its components. Full facepiece equipment is recommended and, if used, replaces need for face shield and/or chemical goggles. Consult respirator manufacturer to determine appropriate type equipment for a given application. Observe respirator use limitations specified by NIOSH or the manufacturer. For emergency and other conditions where there may be a potential for significant exposure or where exposure limit may be significantly exceeded, use an approved full face positive-pressure, self-contained breathing apparatus or positive-pressure airline with auxiliary self-contained air supply. Respiratory protection programs must comply with 29 CFR § 1910.134.

**Skin protection:**

Wear appropriate chemical resistant protective clothing and chemical resistant gloves to prevent skin contact. Consult glove manufacturer to determine appropriate type glove material for given application. Wear chemical goggles, a face shield, and chemical resistant clothing such as a rubber apron when splashing may occur. Rinse immediately if skin is contaminated. Remove contaminated clothing immediately and wash before reuse. Clean protective equipment before reuse. Provide a safety shower at any location where skin contact can occur. Wash thoroughly after handling.

**Eye protection:**

Where eye contact may be likely, wear chemical goggles and have eye flushing equipment available.

**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

|                                     |                    |
|-------------------------------------|--------------------|
| <b>Color:</b>                       | white              |
| <b>Physical state:</b>              | liquid             |
| <b>Form:</b>                        | aqueous dispersion |
| <b>Odor:</b>                        | slightly acrylic   |
| <b>Odor threshold:</b>              | No data available  |
| <b>Flash point</b>                  | No data available  |
| <b>Auto-ignition temperature:</b>   | No data available. |
| <b>Lower flammable limit (LFL):</b> | No data available  |
| <b>Upper flammable limit (UFL):</b> | No data available  |
| <b>pH:</b>                          | 8.5 - 9.5          |



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0  
7  
5/  
172  
2395  
763181

|                                      |                                                   |
|--------------------------------------|---------------------------------------------------|
| Density:                             | estimated 0.95 - 1.10 g/cm <sup>3</sup>           |
| Specific Gravity (Relative density): | estimated 0.95 - 1.10 Water=1 (liquid)            |
| Vapor pressure:                      | No data available.                                |
| Boiling point/boiling range:         | estimated 212 °F (100 °C)                         |
| Melting point/range:                 | 32 °F (0 °C)                                      |
| Freezing point:                      | No data available.                                |
| Evaporation rate:                    | No data available                                 |
| Solubility in water:                 | miscible                                          |
| Viscosity, dynamic:                  | No data available                                 |
| Oil/water partition coefficient:     | No data available.                                |
| Thermal decomposition:               | No data available                                 |
| Flammability:                        | See GHS Classification in Section 2 if applicable |

#### SECTION 10: STABILITY AND REACTIVITY

**Stability:**

The product is stable at normal handling and storage temperatures.

**Hazardous reactions:**

Hazardous polymerization does not occur.

**Materials to avoid:**

May cause coagulation:

Acids

Multivalent metal salts

**Conditions / hazards to avoid:**

See HANDLING AND STORAGE section of this MSDS for specified conditions. See Hazardous Decomposition Products below.

**Hazardous decomposition products:**

Thermal decomposition giving flammable and toxic products

Acrylates

Methacrylates

Carbon oxides

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Sulphur oxides  
Hazardous organic compounds

#### SECTION 11: TOXICOLOGICAL INFORMATION

Data on this material and/or its components are summarized below.

##### Data for ENCOR® FLEX 1361

###### Acute toxicity

###### **Oral:**

Practically nontoxic. Acute toxicity estimate > 5,000 mg/kg.

###### **Dermal:**

Practically nontoxic. Acute toxicity estimate > 5,000 mg/kg.

##### Data for Acrylic copolymer (Proprietary)

###### Other information

The information presented is from representative materials in this chemical class. The results may vary depending on the test substance.

Effects due to processing releases or residual monomer:

Possible cross sensitization with other acrylates and methacrylates.

##### Data for Methanone, diphenyl- (119-61-9)

###### Acute toxicity

###### **Oral:**

May be harmful if swallowed. (rat) LD50 = 2,895 mg/kg.

###### **Dermal:**

May be harmful in contact with skin. (rabbit) LD50 = 3,535 mg/kg.

###### **Skin Irritation:**

Not irritating. (rabbit)

###### **Eye Irritation:**

Causes mild eye irritation. (rabbit)

###### **Skin Sensitization:**

Not a sensitizer. Guinea pig maximization test. No skin allergy was observed.

###### Repeated dose toxicity

Subchronic dietary administration to rat / affected organ(s): liver, kidney / signs: changes in organ structure or function, clinical chemistry changes

Subchronic dietary administration to mouse / affected organ(s): liver / signs: changes in organ structure or function

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#### Specific target organ toxicity - repeated exposure:

May cause damage to organs through prolonged or repeated exposure. (Liver, Kidney)

#### Carcinogenicity

2 years dietary administration to rat / affected organ(s): kidney, blood / Increased incidence of tumors was reported.

2 years dietary administration to mouse / affected organ(s): liver, blood / Increased incidence of tumors was reported.

Chronic dermal administration to mouse / No increase in tumor incidence was reported.

Classified by the International Agency for Research on Cancer as: Group 2B: Possibly carcinogenic to humans.

#### Genotoxicity

##### Assessment in Vitro:

No genetic changes were observed in laboratory tests using: bacteria, animal cells

#### Genotoxicity

##### Assessment in Vivo:

No genetic changes were observed in a laboratory test using: mice

#### Developmental toxicity

Exposure during pregnancy. Oral (rat, rabbit) / No birth defects were observed. Effects on foetal development at doses that produce effects in mothers

#### Reproductive effects

Two-generation study. Dietary (rat) / No toxicity to reproduction.

## SECTION 12: ECOLOGICAL INFORMATION

#### Chemical Fate and Pathway

Data on this material and/or its components are summarized below.

#### Data for Ammonium hydroxide ((NH<sub>4</sub>)(OH)) (1336-21-6)

##### Biodegradation:

Standard biodegradation studies do not apply to inorganic salts. / can be converted to nitrite by bacteria

#### Ecotoxicology

Data on this material and/or its components are summarized below.

#### Data for Ammonium hydroxide ((NH<sub>4</sub>)(OH)) (1336-21-6)

##### Aquatic toxicity data:

Toxic. Cyprinus carpio (Carp) 48 h LC50 = 6.9 - 7.6 mg/l (as ammonia)

##### Aquatic invertebrates:

Practically nontoxic. Daphnia magna (Water flea) 48 h EC50 = 101 mg/l





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#### SECTION 13: DISPOSAL CONSIDERATIONS

##### Waste disposal:

Disposal via incineration is recommended. Dispose of in accordance with federal, state and local regulations. Consult a regulatory specialist to determine appropriate state or local reporting requirements, for assistance in waste characterization and/or hazardous waste disposal and other requirements listed in pertinent environmental permits. Note: Chemical additions to, processing of, or otherwise altering this material may make this waste management information incomplete, inaccurate, or otherwise inappropriate. Furthermore, state and local waste disposal requirements may be more restrictive or otherwise different from federal laws and regulations.

#### SECTION 14: TRANSPORT INFORMATION

US Department of Transportation (DOT): not regulated

International Maritime Dangerous Goods Code (IMDG): not regulated

#### SECTION 15: REGULATORY INFORMATION

##### Chemical Inventory Status

|                                                                    |            |                                                                      |
|--------------------------------------------------------------------|------------|----------------------------------------------------------------------|
| US. Toxic Substances Control Act                                   | TSCA       | The components of this product are all on the Active TSCA Inventory. |
| Canadian Domestic Substances List (DSL)                            | DSL        | All components of this product are on the Canadian DSL               |
| China. Inventory of Existing Chemical Substances in China (IECSC)  | IECSC (CN) | All components of this product are listed or exempted                |
| Japan. ENCS - Existing and New Chemical Substances Inventory       | ENCS (JP)  | All components of this product are listed or exempted                |
| Japan. ISHL - Inventory of Chemical Substances                     | ISHL (JP)  | Not all components of this product are listed or exempted            |
| Korea. Korean Existing Chemicals Inventory (KECI)                  | KECI (KR)  | All components of this product are listed or exempted                |
| Philippines Inventory of Chemicals and Chemical Substances (PICCS) | PICCS (PH) | Not all components of this product are listed or exempted            |
| Australian Inventory of Industrial Chemicals                       | AU AIICL   | All components of this product are listed or exempted                |
| Taiwan Chemical Substance Inventory (TCSI)                         | TCSI       | Not all components of this product are listed or exempted            |

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#### United States – Federal Regulations

##### **SARA Title III – Section 302 Extremely Hazardous Chemicals:**

The components in this product are either not SARA Section 302 regulated or regulated but present in negligible concentrations.

##### **SARA Title III - Section 311/312 Hazard Categories:**

Carcinogenicity

##### **SARA Title III – Section 313 Toxic Chemicals:**

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

##### **Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) - Reportable Quantity (RQ):**

The components in this product are either not CERCLA regulated, regulated but present in negligible concentrations, or regulated with no assigned reportable quantity.

#### United States – State Regulations

##### **California Prop. 65**

WARNING! This product contains a chemical known to the State of California to cause cancer.

##### Chemical name

Methanone, diphenyl-

##### CAS-No.

119-61-9

#### **SECTION 16: OTHER INFORMATION**

##### **Full text of H-Statements referred to under sections 2 and 3.**

H302 Harmful if swallowed.  
H314 Causes severe skin burns and eye damage.  
H318 Causes serious eye damage.  
H335 May cause respiratory irritation.  
H350 May cause cancer.  
H373 May cause damage to organs through prolonged or repeated exposure.  
H400 Very toxic to aquatic life.  
H412 Harmful to aquatic life with long lasting effects.

##### **Latest Revision(s):**

Reference number: 200019025  
Date of Revision: 06/07/2024  
Date Printed: 06/08/2024

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The Company adheres to a strict policy that applies to the use of any of its products in medical device applications. This policy can be found at <https://www.arkema.com/global/en/social-responsibility/innovation-and-sustainable-solutions/responsible-product-management/medical-device-policy/> which is incorporated herein by reference and made a part hereof. Except as expressly authorized, the Company (i) has designated specific medical grade compositions for products used in medical device applications and Company products not so designated are not authorized for use in medical device applications and (ii) strictly prohibits the use of any of its products in medical device applications that are implanted in the body or in contact with bodily fluids or tissues for greater than 30 days. The Company does not design, manufacture and/or directly sell any medical devices. The Company does not co-design, or offer assistance to any purchaser of its products, in their design, manufacture and/or sale of products for medical devices. It is the sole responsibility of the manufacturer of medical devices to determine the suitability of all raw material, products and components, including any medical grade products, in order to ensure that the medical device is safe for end-use and complies with all applicable legal and regulatory requirements and to conduct all necessary tests and inspections.